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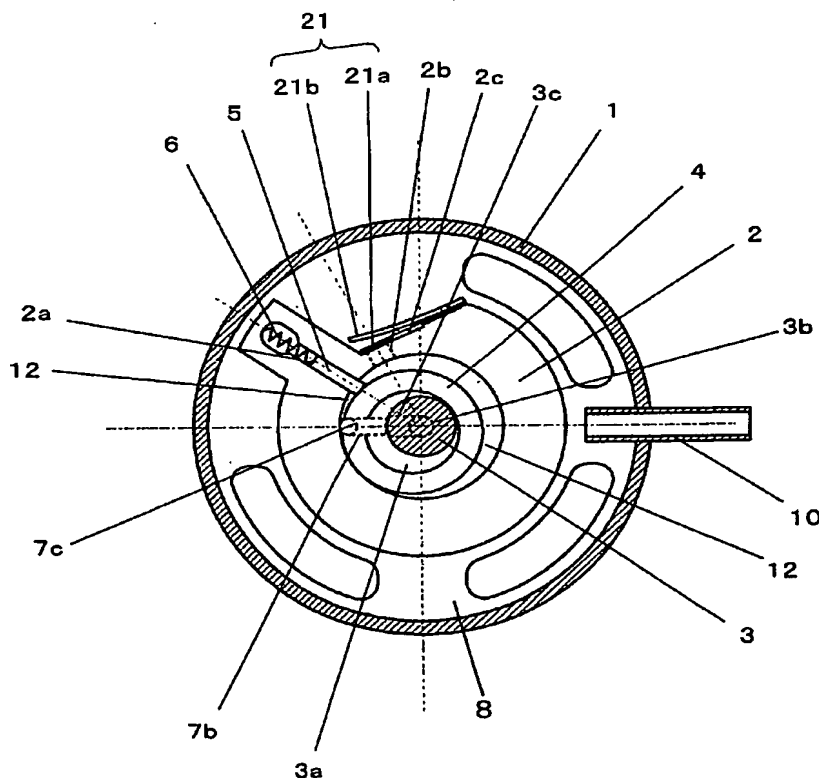
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(57) Abstract: A cylinder (2), a roller (4), an upper bearing member (7) and a lower bearing member (8) form a space, the space is partitioned by a vane (5) into working chambers (12). Working fluid is sucked into the working chamber (12) through a suction hole (7c), the working fluid is expanded in the working chamber (12) whose volume is varied by rotation, and the working fluid is discharged from a discharge hole (2b) into a discharge space (20). A differential pressure regulating valve (21) which is opened when pressure in the working chamber (12) is higher than pressure in the discharge space 20 is provided in the discharge hole (2b). With this, repressing can be carried out even if excessive expansion of working fluid is generated. Therefore, excessive expansion loss can be prevented.

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